

Agilent EcFWUPDATE

Operating Guide 操作说明书



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Notices

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Agilent Technologies, Inc.
412 Ying Lun Road
Shanghai 200131 P.R. China

安捷伦科技（上海）有限公司
上海市浦东新区外高桥保税区
英伦路 412 号
联系电话：（800）820 3278

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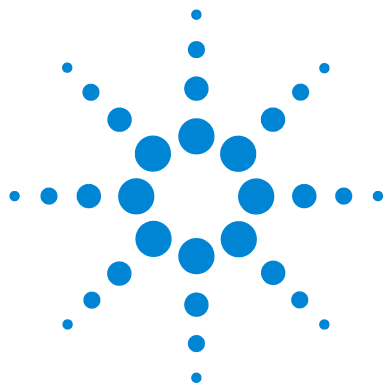
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EcFWUPDATE Operating

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Overview

The EcFWUPDATE tool allows a PC to update the firmware on an Agilent electrochemical instrument. Using the PC USB port, the software can load new firmware into the internal program memory of the instrument.

Install the Software

This program is supported on the following operating systems:

- 32 bit Windows 7
- 32 bit Windows XP, Service pack 3

Install EcFWUPDATE

- 1** Download the EcFWUPDATE.ZIP file from this Agilent website:
<http://www.chem.agilent.com/en-US/Support/Downloads/Utilities/Pages/default.aspx>.
- 2** Unzip the EcFWUPDATE.ZIP file to a temporary directory.
- 3** From the temporary directory location, double-click the EcFWUPDATE.EXE file and follow the instructions provided on the software setup wizard to complete the installation of the EcFWUPDATE program.

The USB driver must be installed before running this program.

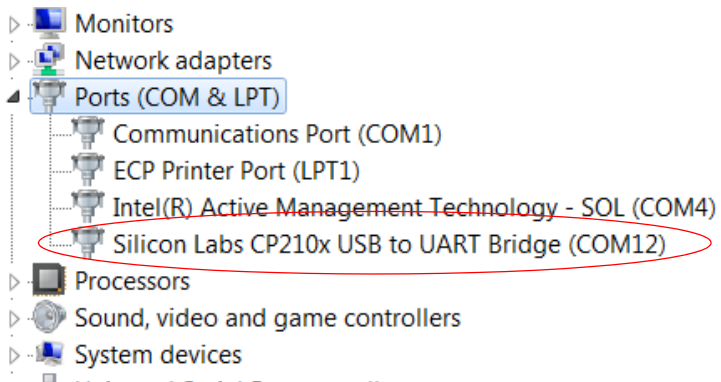
Install the USB driver

Install the provided USB driver on a PC to allow communication with the instrument. If this driver was previously installed for EcPRINT please skip this procedure.

- 1** Run **CP210xVCPInstaller.exe** which is located in the temporary directory used for unzipping the EcFWUPDATE.ZIP file.
- 2** With the instrument powered off, connect the USB cable (provided with the instrument) from the instrument port labeled USB to a USB port on the PC.
- 3** Power on the instrument.

- 4 Open the device manager on the PC to view the newly installed USB driver labeled **Silicon Labs CP210x USB to UART Bridge (COMX)**, where **X** is the communication port number. This label indicates that the USB driver has been properly configured for the instrument.


The port number must be in the range of 1 to 16. If the port number shown is outside this range, double-click on the driver label to open the properties dialog, then click on the **Port Settings** to bring up the **Advanced Settings** dialog, and select a valid port number from the **COM Port Number** drop-down.

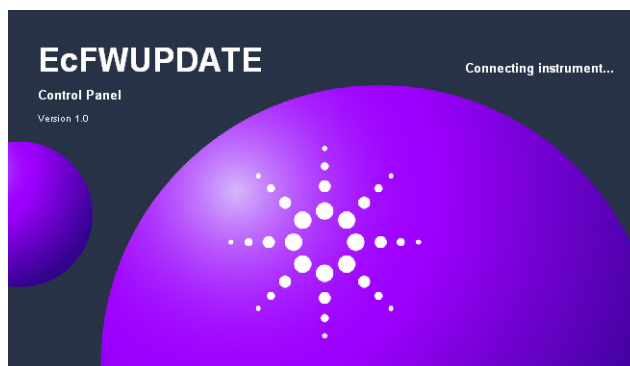


- 5 Record this USB communication port number (12 in this example) for configuration of the EcFWUPDATE software.

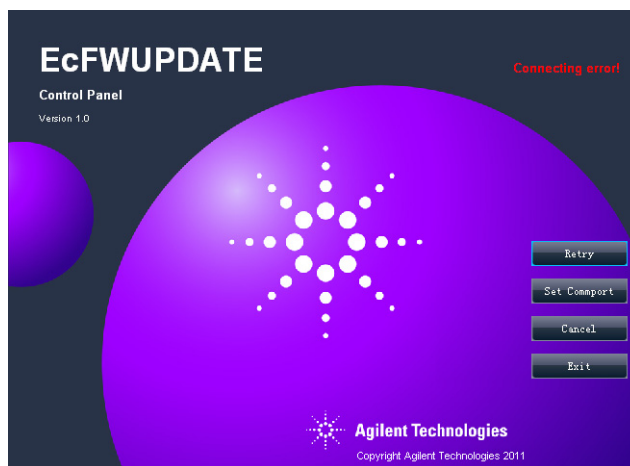
Configure the USB port

This procedure assigns the previously recorded USB port number to the EcFWUPDATE program.

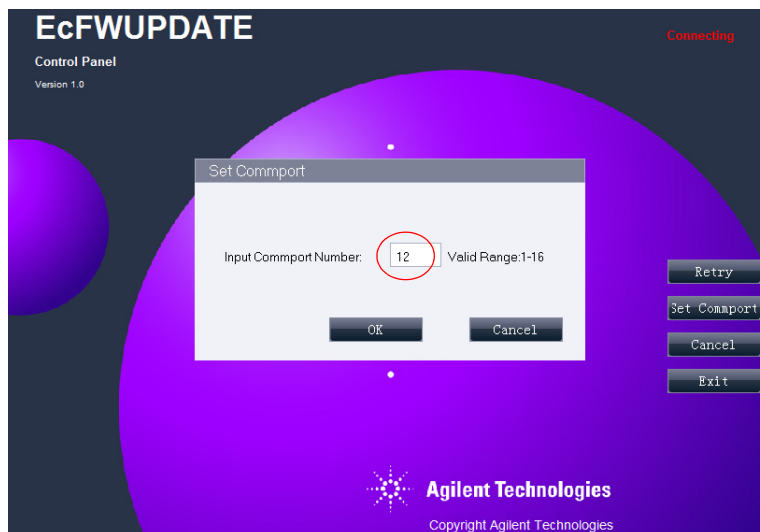
- 1 Double-click the EcFWUPDATE icon  on the PC desktop to start the program. Initially the PC screen displays **Connecting instrument....**



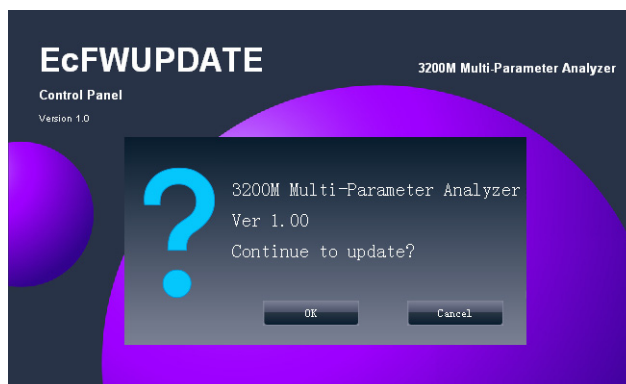
A **connecting error!** message displays because the port number is not yet configured.



- 2 Click **Set Commport** to display the **Set Commport** dialog.



- 3 Enter the previously recorded communication port number (12 in this example) and click **OK**.
- 4 Click **Retry** and the EcFWUPDATE software should now connect to the instrument and display the instrument type, and firmware version number.
- 5 A prompt displays if an update is required.



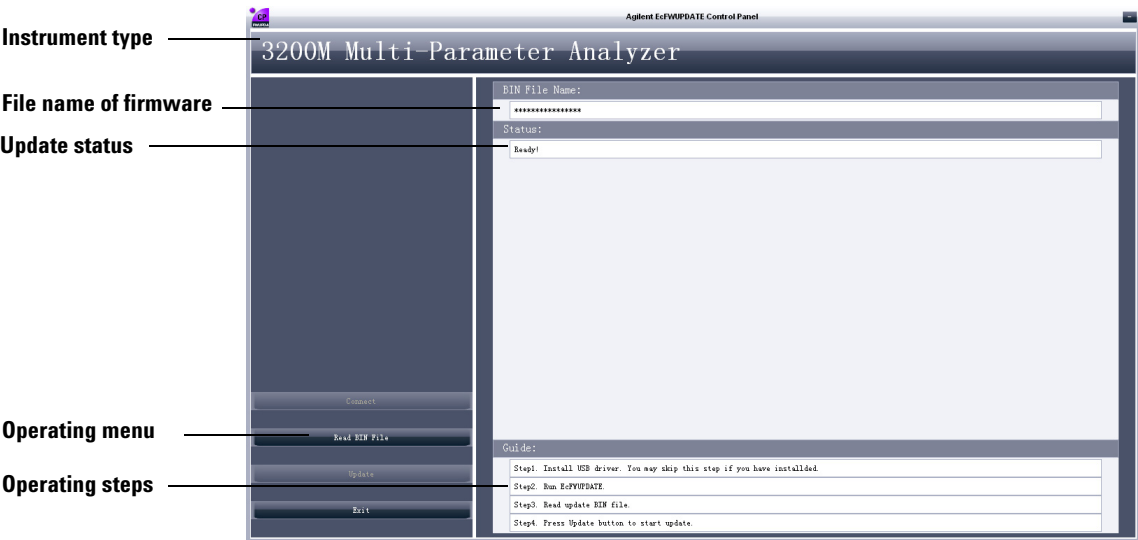
- 6 Click **Cancel** to exit or click **OK** to update the firmware now. See the next section on “[Run the Program](#)” and continue with step 2.

Run the Program

Configure the USB port before running the software.

- 1 Double-click the EcFWUPDATE icon  on the PC desktop to start the program.

When the instrument communicates with the EcFWUPDATE software, it displays the program user interface window with recent data readings in the data display area.

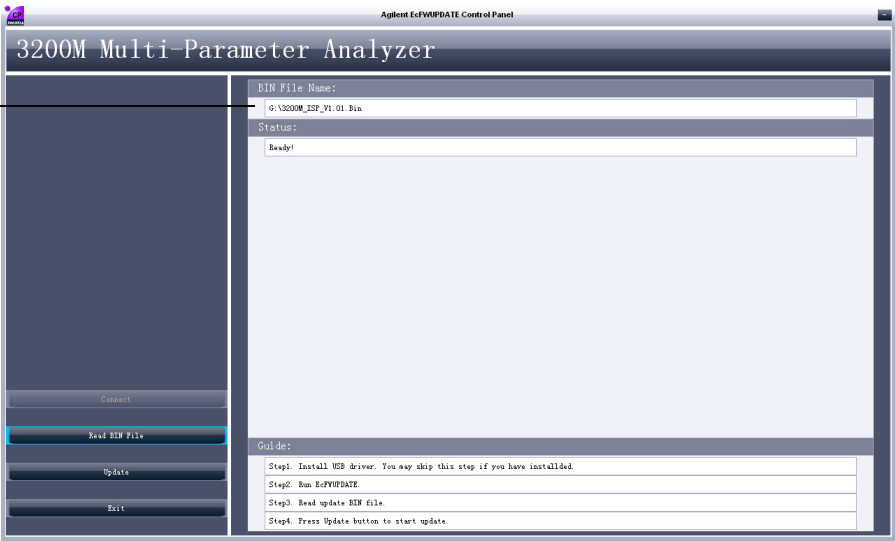


- 2 Click **Read BIN File** to select the latest firmware file.

The firmware files are named as follows where *x.00* is the version number:

- 3200P_ISP_V*x.00*.Bin, for 3200P pH meter
- 3200C_ISP_V*x.00*.Bin, for 3200C Conductivity Meter
- 3200D_ISP_V*x.00*.Bin, for 3200D Dissolved Oxygen Meter
- 3200I_ISP_V*x.00*.Bin, for 3200I Ion Meter
- 3200M_ISP_V*x.00*.Bin, for 3200M Multi-Parameter Analyzer

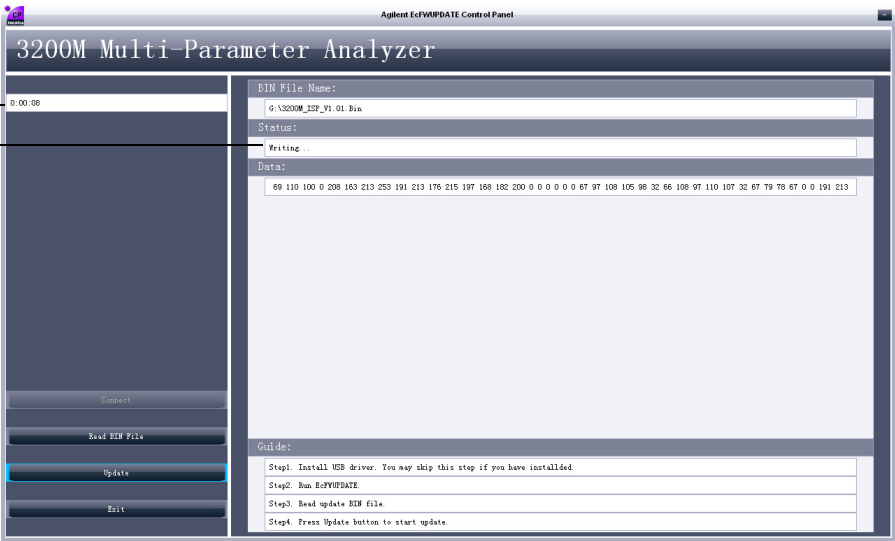
File name of firmware



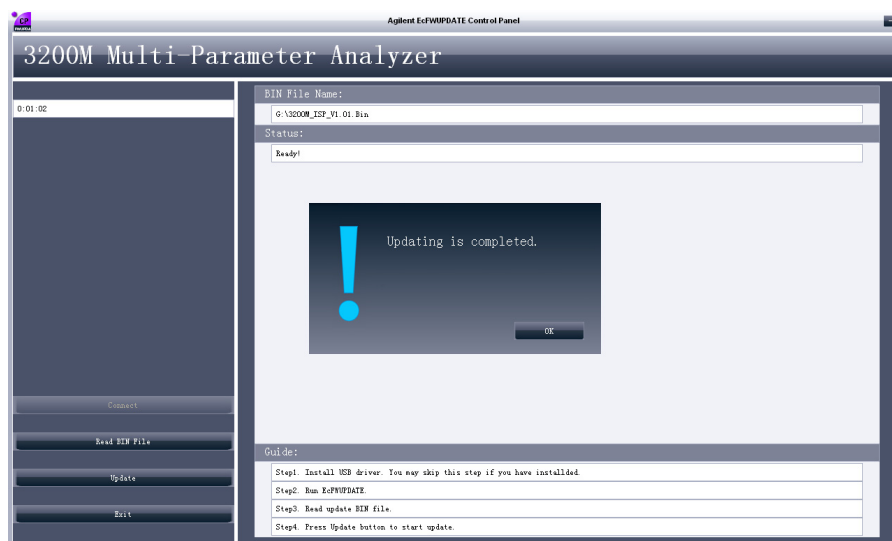
3 Click **Update** to update the firmware.

Update time

Update status

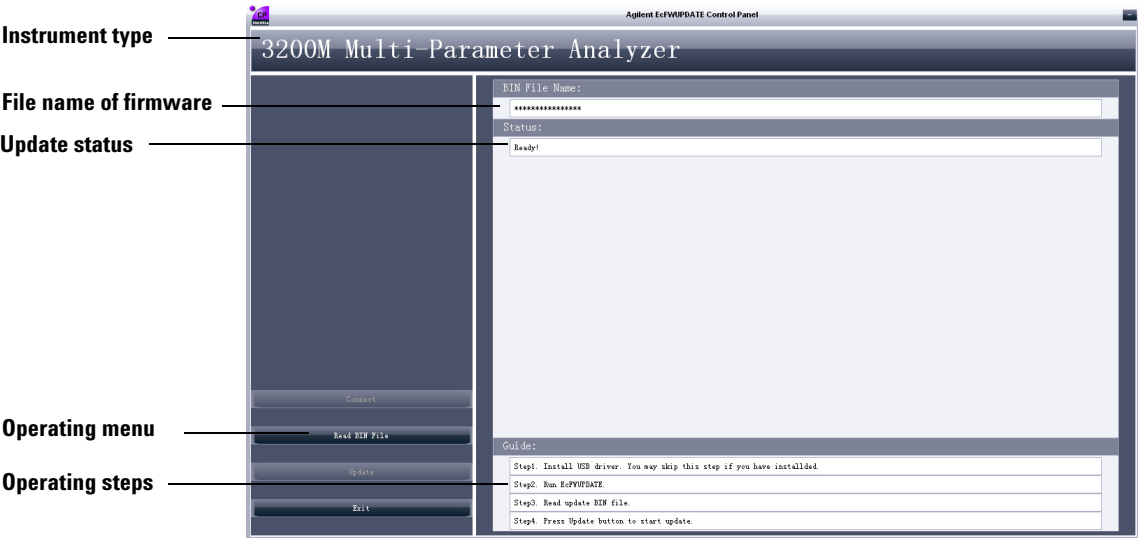


When the firmware update is complete, the following message displays.



4 Click **Exit** to exit the program.

User Interface Reference



The software interface is composed of 5 parts:

- Instrument type
- File name of firmware (.BIN)
- Update status
- Operating menu
- Operating steps

Cancel

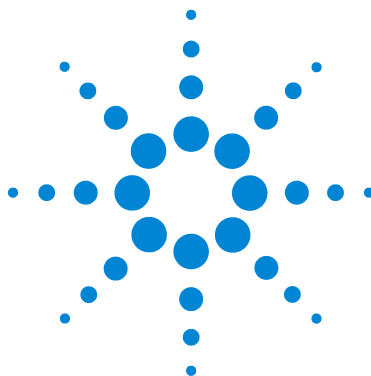
Click **Cancel** to cancel the connection.

Exit

Click **Exit** to exit the EcFIRMWARE program.

Connect (2nd try)

Click **Retry** to attempt to connect the instrument.



Agilent EcFWUPDATE

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安捷伦科技（上海）有限公司
上海市浦东新区外高桥保税区
英伦路 412 号

联系电话：（800）820 3278

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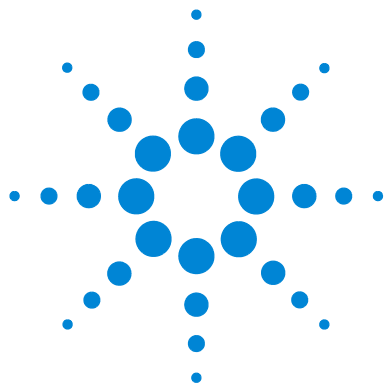
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Agilent EcFWUPDATE
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概述

EcFWUPDATE 是 Agilent 电化学仪器的固件升级软件。通过仪器的 USB 接口，软件可以将仪器的新版本固件文件升级到仪器的存储器中。

软件安装

该程序支持以下操作系统：

- 32 位的 Windows 7
- 32 位 Windows XP Service Pack 3

安装 EcFWUPDATE

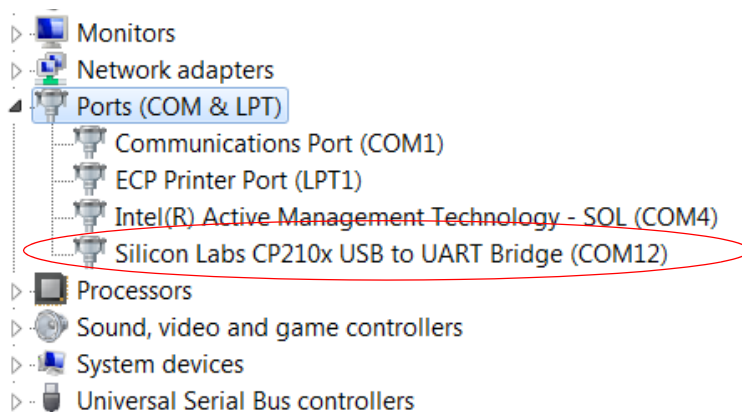
- 1 从安捷伦公司网站
<http://www.chem.agilent.com/en-US/Support/Downloads/Utilities/Pages/default.aspx> 下载 EcFWUPDATE. ZIP 软件包。
- 2 将软件包 EcFWUPDATE. ZIP 解压到一个临时文件夹。
- 3 双击 EcFWUPDATE. EXE 并根据软件安装向导完成软件安装。
在使用 EcFWUPDATE 软件之前必须安装 USB 驱动软件。

安装 USB 驱动程序

必要时，需安装 USB 驱动软件将计算机的 USB 口模拟成 RS232 接口。如果已经安装过驱动程序，请跳过这一步。

- 1 运行随本软件一起提供的 USB 驱动程序
CP210xVCPInstaller.exe（包含在 EcFWUPDATE. ZIP 软件包中）。
- 2 断开仪器电源，用 USB 连接线（随仪器附带）将仪器连接到计算机的一个 USB 接口。
- 3 打开仪器电源。
- 4 进入计算机设备管理器，在“端口”一栏中可以看到已安装的 USB 串口设备，**Silicon Labs CP210x USB to UART Bridge (COMX)**，表示 USB 驱动程序已经正确安装，可以正常使用。**X** 为通讯端口号。


这个模拟的通讯口必须在 1 到 16 之间。如果通讯口号不在此范围，双击这个通讯口打开 **“Property”**（属性）对话框，点击 **“Port Settings”**（端口设置），然后点击 **“Advanced Settings”**（高级），打开高级设置对话框，并从 **“COM Port Number”**（COM 端口号）下拉列表中选择合适且未被占用的端口号。

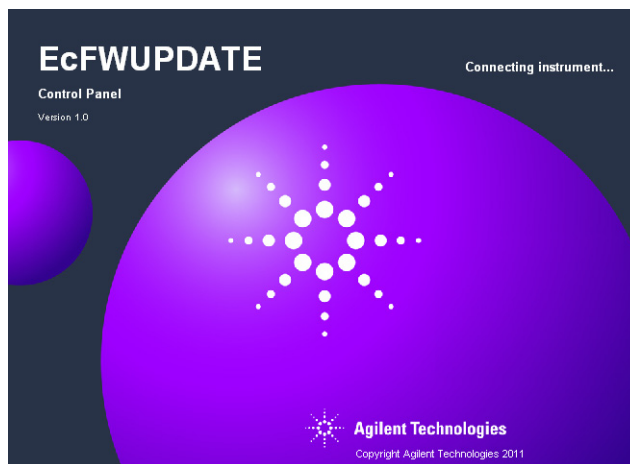


- 5 记录此通讯口号（图例中 12 为通讯口号）。

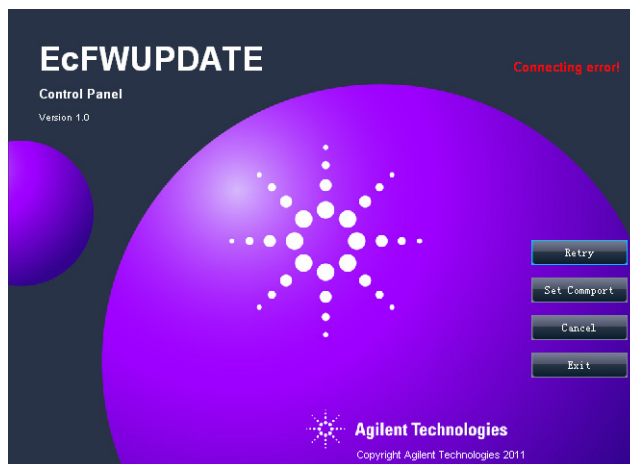
设置通讯口

这一章节中将把“安装 USB 驱动程序”过程中记录的 USB 端口号的分配给 EcFWUPDATE 程序。

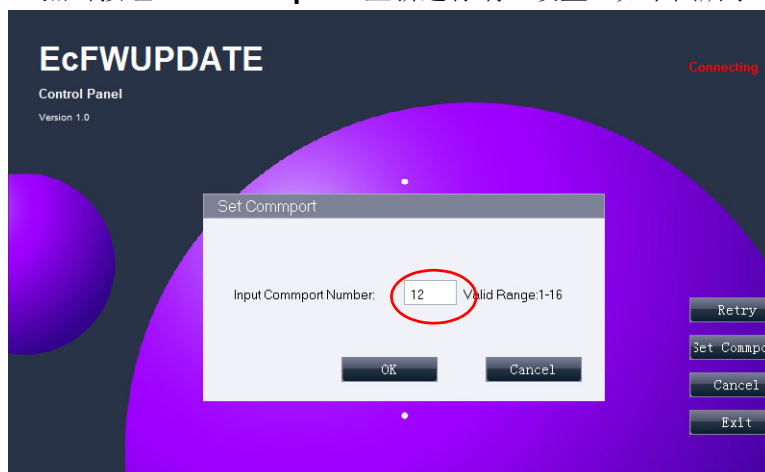
- 1 双击桌面上图标 ，开始运行 EcFWUPDATE 软件，软件将显示 **“Connecting instrument...”**，如下图所示。



由于通讯口还没有设置，软件将显示
“Connecting error!” 错误信息。



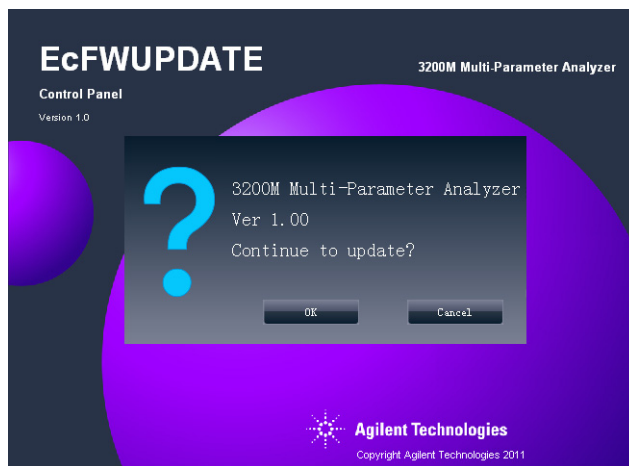
2 点击按钮 **“Set Commpport”** 重新进行端口设置，如下图所示。



3 输入“安装USB驱动程序”过程中记录的USB端口号，点击按钮 **“OK”**。

4 点击 **“Retry”**，软件将连接仪器并显示仪器类型和固件版本号。


5 系统将提示版本升级信息。

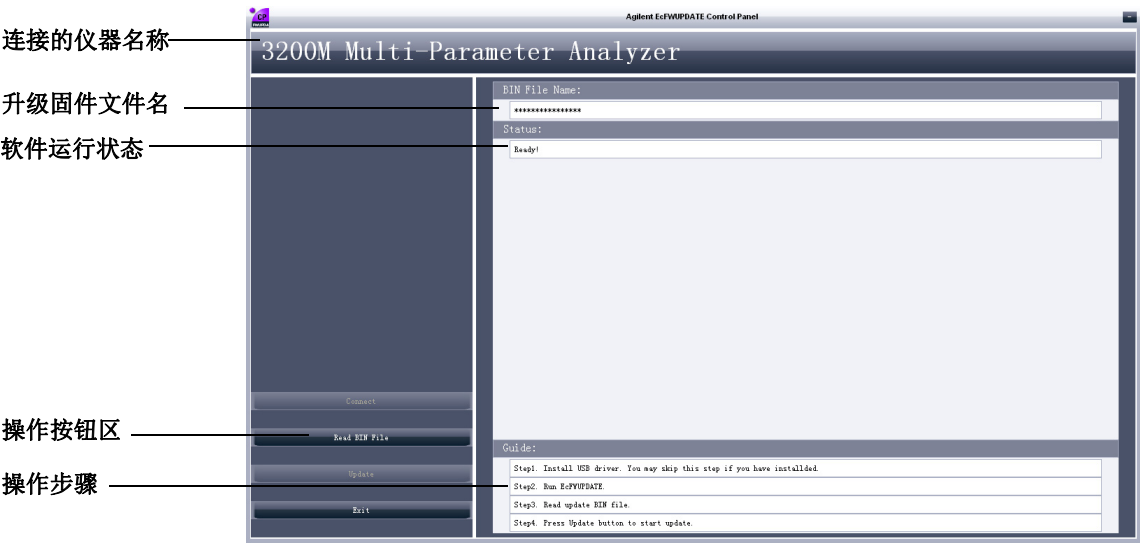


6 点击“Cancel”退出或者点击“OK”来升级固件信息。参照下一章“软件运行”并从第2步开始

软件运行

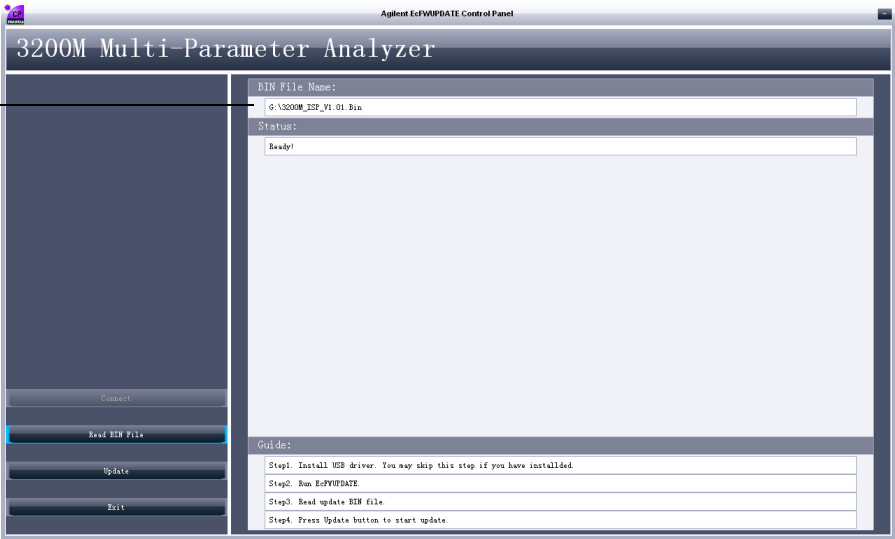
在使用软件之前，需要先设置 USB 通讯口。

- 1 双击桌面上图标 ，开始运行 EcFWUPDATE 软件。当仪器正确联机后，EcFWUPDATE 软件将显示仪器窗口，如下图所示。



- 2 点击按钮“Read BIN File”并选择最新的固件文件（包含在 EcFWUPDATE.ZIP 中）最新的固件文件名如下，其中 x.00 为固件的版本号。
- 3200P 请选择 3200P_ISP_Vx.00.Bin
 - 3200C 请选择 3200C_ISP_Vx.00.Bin
 - 3200D 请选择 3200D_ISP_Vx.00.Bin
 - 3200I 请选择 3200I_ISP_Vx.00.Bin
 - 3200M 请选择 3200M_ISP_Vx.00.Bin

升级固件文件名



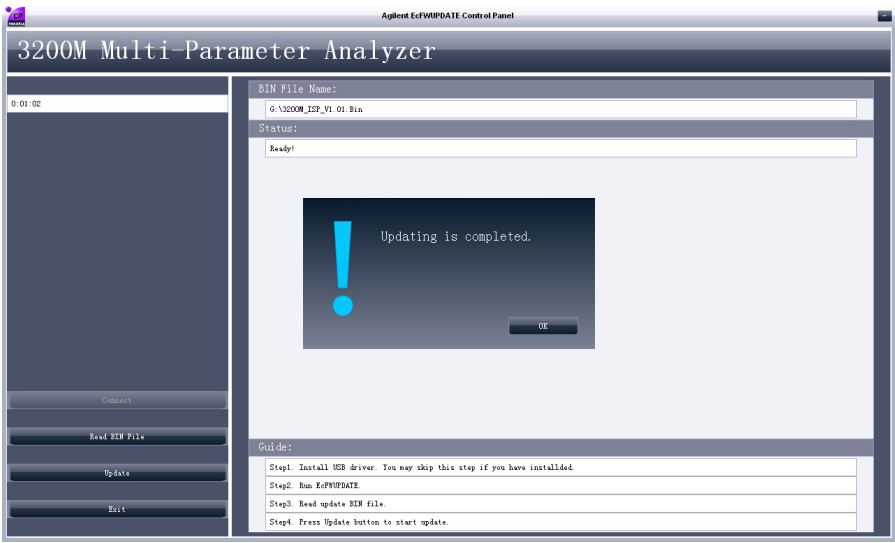
3 点击按钮 “Update” 进行升级，如下图所示。

升级时间

升级状态

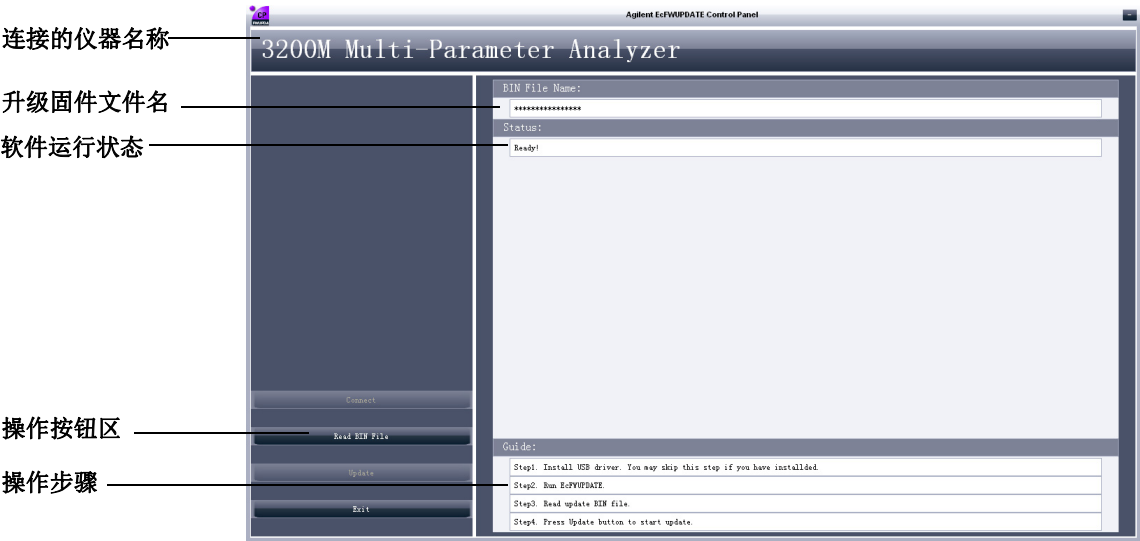


固件升级完成后，系统将显示下图：



4 点击 “Exit” 退出固件升级。

软件界面



软件界面主要有以下 5 个部分：

- 连接的仪器名称
- 升级固件文件名
- 软件运行状态
- 操作按钮
- 操作步骤

取消

点击按钮 **“Cancel”** 取消连接。

退出

点击按钮 **“Exit”** 退出。

连接（重新联机）

点击 **“Retry”** 再重新连接。

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